

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

**EP 1 005 885 B1**

(12)

## EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention  
of the grant of the patent:  
**28.05.2003 Bulletin 2003/22**

(51) Int Cl.7: **A63F 13/10, H04N 7/173**

(21) Application number: **99309185.9**

(22) Date of filing: **18.11.1999**

### (54) Interactive applications

Interaktive Anwendungen

Applications interactives

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC PT SE**

- Kydd, Richard Andrew  
Twickenham, Middlesex TW2 5TT (GB)
- Cornwell, Simon Anthony Vivian  
London NW3 4SS (GB)

(30) Priority: **04.12.1998 EP 98309944**

(74) Representative: **Skone James, Robert Edmund  
GILL JENNINGS & EVERY  
Broadgate House  
7 Eldon Street  
London EC2M 7LH (GB)**

(43) Date of publication of application:  
**07.06.2000 Bulletin 2000/23**

(73) Proprietor: **Two Way TV Limited  
Avonmore Road, London W14 8TS (GB)**

(72) Inventors:  
• Malaure, Jason Roberts  
Twickenham, Middlesex TW2 5RN (GB)

(56) References cited:  
**EP-A- 0 714 684** WO-A-97/08892  
**US-A- 5 838 314**

**EP 1 005 885 B1**

Note: Within nine months from the publication of the mention of the grant of the European patent, any person may give notice to the European Patent Office of opposition to the European patent granted. Notice of opposition shall be filed in a written reasoned statement. It shall not be deemed to have been filed until the opposition fee has been paid. (Art. 99(1) European Patent Convention).

### Description

[0001] The invention relates to a method and apparatus for supplying information from a central source to a plurality of remote user interfaces relating to an interactive application.

[0002] Interactive applications, such as interactive games, are supplied to a plurality of user interfaces, often in conjunction with a broadcast TV programme or the like with which the application is associated. In a conventional interactive system, a scheduled TV programme is transmitted at a scheduled start time and in addition application data relating to the associated application is also downloaded by the user interfaces.

[0003] EP-A-0714684 discloses a real-time multi-user game communication system for use in a cable television infrastructure. Games are transmitted simultaneously to a large number of remote users.

[0004] US-A-5838314 discloses an interactive video service system enabling pay-per-view and video-on-demand systems to be implemented. These are not interactive applications and are not therefore directly relevant to the present invention.

**[0005]** In particular, this is not concerned with the simultaneous use of an interactive application by a large number of users.

[0006] WO-A-97/08892 describes a system providing interactive entertainment in the form of a branch structured narrative. Information relating to the application is downloaded to a set top box and then the user can activate the application. However, there is no link between different users and so this disclosure is not relevant to the problems addressed by the present invention.

[0007] The present invention is concerned with enabling the plurality of remote user interfaces to take part in the same interactive application and thus provide an opportunity for inter-user competition.

**[0008]** A problem with conventional interactive systems is that it can take a large amount of time for each user interface to download the application data. If a user interface starts downloading the application data shortly before the scheduled start time, then there may not be enough time to completely download the application data before the scheduled start time.

[0009] In accordance with a first aspect of the present invention there is provided a method of supplying information from a central source to a plurality of remote user interfaces relating to an interactive application, the method comprising:

- i) transmitting application data associated with the interactive application to the user interfaces; and,
- ii) thereafter, transmitting a real time start signal to the user interfaces to enable the interactive application to begin substantially simultaneously at each user interface.

[0010] In accordance with a second aspect of the

present invention there is provided apparatus for supplying information from a central source to a plurality of remote user interfaces relating to an interactive application, the apparatus comprising means for:

5 i) transmitting application data associated with the interactive application to the user interfaces; and,  
10 ii) thereafter, transmitting a real time start signal to the user interfaces to enable the interactive application to begin substantially simultaneously at each user interface.

[0011] The invention ensures that the application data is transmitted before the application begins by enabling

15 the application at each user interface with a real time start signal. There are various different types of application with which the invention can be implemented. In a simple example, applications can be supplied on de-

20 mand. In a second group of examples, an interactive application can be scheduled to start at a particular time, for example where the application relates to a game to be played amongst a number of different users. In this situation, the application data will be made available from a predetermined time before the Interactive application is scheduled to begin to allow enough time for the data to be downloaded if a user wishes to take part in the interactive application.

25

30 [0012] In a third group, the interactive application is associated with a TV broadcast programme or the like scheduled to begin at a certain time. As with the previous example, the application data will then be made available from a predetermined time, for example ten minutes before the scheduled program start time.

[0013] In all cases, however, the real time start signal must be received before at least the interactive part of the application can commence.

[0014] Preferably, the method further comprises broadcasting an "application available" signal at the pre-determined time to all the remote user interfaces. This may be as part of an electronic programme guide. Alternatively, the broadcasting of application data may in itself indicate the application is available.

[0015] The early knowledge that an application is available allows users to respond before the application starts. This period prior to the issue of the real time start signal can be used to carry out a statistical analysis of the user interfaces. For example the interactive application may comprise a pool betting game in which each user makes a betting payment and the winner of the game receives the betting payments of the other users. In this case, the application can perform certain profiling

In this case, the application may perform certain preliminary tasks, such as passing bets to the central source where the betting payments from all of the user interfaces may be added up and the users informed of the total amount of money which will be given to the winner.

answers in response. In this case three different quizzes may be transmitted simultaneously in respective categories - "NOVICE", "INTERMEDIATE" and "ADVANCED". Before the application is started, players enter themselves and provide an indication of their level of expertise to the central source where a check is made that there are at least a minimum number of players entered in each category. If the minimum number of players have not entered in, for example, the "NOVICE" category, then the application is only operated in the "INTERMEDIATE" and "ADVANCED" categories.

[0017] Yet a further advantage of the present invention is that it ensures that there is enough time to perform a credit check routine to check the credit of one or more of the users before the application is started.

[0018] The application data typically comprises a set of rules and/or executable computer code. The executable program code can then be run as an application by the user interfaces in order to enable the users to interact with the application.

[0019] Typically, following the start of the application, a mixture of video data (which may be generated live in a central studio in the form of a television program for example) and/or data (e.g. quiz question data) which provides input for the applications running on the user interfaces will be transmitted to the user interfaces.

[0020] The first substantive action in the application may occur after a certain period has passed following the real time start signal. This action could be the appearance of the first question in a quiz game.

[0021] The user interfaces may communicate an indication of the time of this action to their respective users during a waiting interval, for instance by a countdown indicating the amount of time remaining or by simultaneously indicating the time of the first action and the current time. These start times may be indicated aurally or by visual display.

[0022] The interactive application may be scheduled to start at a certain time and this scheduled start time may be advertised in a TV guide magazine which is supplied to the users in advance. However preferably the method further comprises transmitting electronic programme guide data to the user interfaces, the electronic programme guide data indicating the scheduled start time of the application. Typically, if the first substantive action occurs after the scheduled start time this is not advertised, to discourage users from joining an application at the last moment. In the case of scheduled applications relating to a broadcast programme, the scheduled start times of the programme rather than the application will normally be advertised.

[0023] The application data may be repeatedly transmitted over a mass broadcast medium to enable each user interface to download the data when required. Alternatively the application data may be transmitted on receipt of a request from one of the user interfaces.

[0024] The user interfaces may all receive the application data via a single common transmission medium

or platform. Alternatively, the data may be transmitted on multiple platforms.

[0025] An embodiment of the present invention will now be described with reference to the accompanying drawings, in which:-

Figure 1 is a schematic diagram of an interactive broadcast network; and,

10 Figures 2 to 4 are a flow diagram illustrating a sequence of images displayed during a scheduled programme.

[0026] The interactive broadcast network shown in Figure 1 comprises a game control system A at a central site and including a central controller 1 which will include a computer such as a PC operating a Windows based system, connected to an input device 2 such as a keyboard and/or mouse and the like and to an output device

3 which may include a monitor and/or printer. A store 4 contains a database storing data relating to service functions and remote users, which can be accessed and amended by the central controller 1, and a Live File store storing application data relating to the game (i.e. application) being or to be broadcast. The central controller

25 1 generates data which can be converted to TV display signals and other control signals associated with various service functions, on a land line 5 connected to a combining unit 6 defining an insertion point of a TV broadcast system B. The combining unit 6 receives television

30 broadcast signals from a studio 7 (or outside broadcast (OB) location, in the case of an outside live event), and combines these with the signals on the line 5 so that they are transmitted simultaneously by a transmitter 8 to remote users or players C. In other applications, the 35 signals from the central controller 1 and the studio or OB 7 will be transmitted separately.

[0027] The signals applied to the combiner 6 may be transmitted to the remote units within a vertical blanking interval (VBI) of the normal TV signal or on a separate

40 radio FM-SCA channel or other data format such as a cable modem, or the Internet. Typically, the transmitted signals will be in digital form but the invention is also applicable to analogue signals.

[0028] Each remote user C has a home or remote unit

45 9 forming interface apparatus and implemented as a Set Top Box (STB) having a tunable television receiver 10 connected to an aerial 11 and a monitor 12. The home unit 9 includes an address/databus 13 connected to the receiver 10, the bus 13 being connected to a microprocessor 14, a memory 15, such as a ROM, storing program instructions for the processor 14, an infra-red receiver 16, and a memory (RAM) 17. Signals transmitted by the processor 14 can be communicated to the central controller 1 via a public switched telephone network 18 which is selectively accessed by a telephone interface unit 19 connected to the bus 13.

[0029] Alternative media such as cable or the internet can be used for the return signals (as for the signals

transmitted to the remote unit C). In general the return signals will be transmitted over a different medium to the incoming signals.

[0030] In order to enable the users to communicate with the STB 9, each user has his own handset 25-28 which is physically separate from the STB 9 but can communicate with the IR receiver 16 of the STB 9 via signals generated in the infra-red waveband. The IR receiver 16 then converts those signals for supply to the processor 14 along the data bus 13.

[0031] Each remote handset 25-28 can have a variety of control buttons provided as is well known in the art. Each handset can be used to control the channel to which the receiver 10 is tuned, the tuning being effected via the processor 14. In addition, each remote handset 25-28 can be used to control the location of a respective cursor (not shown) displayed on the monitor 12, movement of a button or the like on the remote handset generating signals to which the processor 14 responds by causing equivalent movement of the cursor about the display screen of the monitor 12. A further button is provided to enable the user to "select" an item indicated by the cursor in those applications where this is necessary.

[0032] Each handset 25-28 has substantially the same construction which may be of the form described in EP-A-0921657.

[0033] The game control system A can be used to control a variety of games including interactive, predictive games and two examples of such interactive, predictive games are described in EP-A-0873772. In the first example, play live football, the remote players are able to attempt to predict certain events prior to commencement of a live football match which is broadcast by the transmitter 8 and can also attempt to predict certain events during the live broadcast. In the second example, a predictive game for use with broadcast horse racing is described.

[0034] The invention is also concerned with games which can be played between participants at the same or different remote locations C. These may be, for example, games based on quiz shows and the like where a question is presented with a set of multiple choice answers and the users at the remote locations C must compete together to be the first to answer correctly from a multiple selection of answers. The questions may or may not be linked to a quiz show being broadcast simultaneously.

[0035] An electronic programme guide (EPG) generator 100 provides EPG data to the central computer system 1. The EPG data includes the titles and scheduled start times of scheduled programmes to be broadcast on the interactive channel, and also on other broadcast channels. An example of a conventional electronic programme guide system is described in US-A-5630119.

[0036] An example of an interactive application will now be described with reference to Figures 2-4, which are flow diagrams including a sequence of images which are presented to the user on the monitor 12.

[0037] After turning on the STB 9 and tuning the receiver 10 to the interactive channel, the processor 14 obtains information from signals broadcast by the transmitter 8 to cause the monitor 12 to display a list 121 of

5 scheduled programmes along with a clock 128 indicating the current time (in this case 7:12). The list 121 is compiled by the processor 14 from data originating from the EPG generator 100. In this case, a programme entitled "Two Way Triv" is scheduled at a start time of 7:

10 30, "War of the Words" is scheduled at a start time of 8:00, and "Quick Fire" is scheduled at a start time of 9:30. After clicking on an "anytime" icon 122, the processor 14 causes the monitor 12 to display a list 123 of interactive games ("Stinkbomb", "War of the Words" etc.)

15 which can be played at any desired time. By clicking on a "broadcast TV" icon 124 the user is presented in a similar way with a third list 125 of scheduled programmes on broadcast TV. In this case, a programme entitled "Star Quiz" is scheduled at a start time of 7:30 on Channel 4, and a programme entitled "Play Live Football" is scheduled at a start time of 7:30 on BBC 1.

[0038] Ten minutes before the scheduled start time of the "Two Way Triv" program (i.e. at 7:20), the central controller 1 downloads application data in the form of executable computer code defining a "Two Way Triv" application from the Live File store 4 and also related data such as rule information, and repeatedly broadcasts the data by transmitting it from the transmitter 8. Before 7:

20 20, if the user clicks on the "Two Way Triv" icon 126, the icon is not highlighted indicating that the application data cannot be downloaded. However from 7:20 onwards (i.e. 10 minutes before the scheduled start time), when the user clicks on the icon 126, the processor 14 determines that the "click" time is within a predetermined time (in this case set at 10 minutes) before the scheduled start time of the application corresponding to the icon 126 and thus downloads the "Two Way Triv" application (as indicated at 29) the next time that it is broadcast. The downloaded code is saved in the memory 17. In addition, the icon 126 is highlighted by the processor 14.

[0039] The processor 14 then runs a preliminary section of the downloaded application which starts with a "pay per play" routine 30 in which the user is first presented with a choice 31 of prize play 32, free play 33 or

35 cancel 34. If the free play icon 32 is selected the routine jumps to a copyright message 35 (shown in Figure 3) which is held on screen for a predetermined period (X seconds). If the prize play icon 32 is selected, the user is presented with a choice of paying using his play account 36, money card 37, or cancelling 38. If the user

40 clicks on either of the payment icons 36,37, the processor 14 program jumps to a payment routine 39 in which the user is prompted to enter his play account pin number, or money card (e.g. Mondex) pin number. The play account pin number is transmitted to and stored by the central controller 1 (Figure 1) via the interface 19 and PSTN 18. The processor 14 then implements a credit check routine and jumps to the copyright message

35 (Figure 3).

[0040] After the copyright message 35 times out (in this case at 7.25 (X = 300 seconds)) the program jumps to a "before real time start" routine 136 in which the user is presented with a message 37 "The game will be **STARTING SHORTLY**". If the user clicks on a "HOW TO PLAY" icon 38, the processor 14 downloads a set of program rules from the store 17, forming part of the previously downloaded application data, which are presented to the user as a list 39. If the user clicks on an "OK TO PLAY" icon 40 the routine returns to message 37.

[0041] At the scheduled start time of 7:30 (or when an operator at the central controller 1 decides, for example from a visual cue from a TV program), an operator transmits a real time start signal from the central controller 1 which causes the program to jump to an "after real time start" routine 41 and starts a stream of timed messages transmitted in real time to the processor 14. These messages cause the processor 14 to display a countdown message 42 which indicates the time remaining until the application start time (which may be after the start of a broadcast TV programme with which the application is associated).

[0042] It will be appreciated that the real time start signal will be transmitted to all STBs 9 so that all those STBs 9 participating in the application will be synchronized to initiate the application at the same time.

[0043] At the application start time of 7:33, the countdown finishes and the application program enters its interactive part starting with an "after game start" routine 43 (Figure 4). The processor 14 initiates a local counter which provides a value of time elapsed since real-time start (7:33) ("game time"). If the system is in the "how to play" screen at the application start time, then the monitor displays a message 44 "THE GAME HAS STARTED". Otherwise the processor 14 automatically enters a game mode at 45 in which the user is presented with a series of questions 46,47 etc and answers by clicking on selected answer icons 48,49 etc. The questions and answers may fill the entire monitor screen or may be overlaid on a real-time television broadcast, for instance of a presenter reading out the questions to competitors in a television studio.

[0044] If the user is in the "how to play" mode at 7.33 then, when the user clicks on the "OK TO PLAY" icon 40, the routine jumps to a display screen which indicates at 50 that the game has started and the user will be joining in shortly. At a game entry point (for instance between questions) the user joins the game at 51. The user is also given the option at 52 of returning to the "how to play" mode.

[0045] As shown in Figure 4, the user may also enter a game after the application start time of 7.33. In this case, at 53 the system carries out the "pay per play" routine (shown at 30 in Figure 2). The system then displays the copyright message 54 and jumps to the "joining in shortly" display message 50.

## Claims

1. A method of supplying information from a central source to a plurality of remote user interfaces relating to an interactive application, the method comprising:
  - i) transmitting application data associated with the interactive application to the user interfaces; and,
  - ii) thereafter, transmitting a real time start signal to the user interfaces to enable the interactive application to begin substantially simultaneously at each user interface.
2. A method according to claim 1, wherein the real time start signal defines a time in the future at which the interactive application begins.
3. A method according to claim 1 or claim 2, wherein step i) comprises repeatedly transmitting the application data from a predetermined time before the interactive application is to begin.
4. A method according to claim 3, further comprising broadcasting an "application available" signal at the predetermined time to all the remote user interfaces.
5. A method according to claim 4, wherein the "application available" signal is broadcast as part of an electronic programme guide.
6. A method according to any of the preceding claims, wherein each user interface increments an application time value which is initiated when the application begins.
7. A method according to any of the preceding claims, wherein the interactive application relates to a television programme which is broadcast while the interactive application is running.
8. A method according to claim 7, further comprising transmitting electronic programme guide data to the user interfaces, the electronic programme guide data indicating the scheduled start time of the television programme.
9. A method according to any of the preceding claims wherein the application data comprises a set of rules associated with the application.
10. A method according to any of the preceding claims wherein the application data comprises executable computer code.
11. A method according to any of the preceding claims,

wherein the interactive application comprises an interactive game.

12. A method of implementing an interactive application, the method comprising supplying information from a central source to a plurality of remote user interfaces relating to an interactive application by a method according to any of the preceding claims; and causing the selected user interfaces to enable the interactive application following receipt of the real time start signal, whereby the said user interfaces receive information from the central source and supply information to the central source.

13. Apparatus for supplying information from a central source to a plurality of remote user interfaces relating to an interactive application, the apparatus comprising means for:

- i) transmitting application data associated with the interactive application to the user interfaces; and,
- ii) thereafter, transmitting a real time start signal to the user interfaces to enable the interactive application to begin substantially simultaneously at each user interface.

14. User interface apparatus for use with apparatus according to claim 13, the user interface apparatus comprising a processor for implementing an interactive application and being adapted to be responsive to the receipt of a real time start signal to initiate at least the interactive part of the application.

**Patentansprüche**

1. Verfahren zur Lieferung von Information von einer zentralen Quelle an mehrere entfernte Benutzerschnittstellen, die sich auf eine interaktive Anwendung beziehen, das Verfahren umfassend:
  - i) Übermitteln von Anwendungsdaten, die der interaktiven Anwendung zugeordnet sind, an die Benutzerschnittstellen; und
  - ii) danach, Übermitteln eines Echtzeit-Startsignals an die Benutzerschnittstellen, um es der Interaktiven Anwendung zu ermöglichen, an jeder Benutzerschnittstelle im Wesentlichen gleichzeitig zu beginnen.
2. Verfahren nach Anspruch 1, bei dem das Echtzeit-Startsignal eine Zeit in der Zukunft definiert, zu der die interaktive Anwendung beginnt.
3. Verfahren nach Anspruch 1 oder Anspruch 2, bei dem der Schritt i) ein wiederholtes Übermitteln der Anwendungsdaten von einer vorbestimmten Zeit an
4. Verfahren nach Anspruch 3, weiter umfassend das Ausstrahlen eines "Anwendung-verfügbar"-Signals zur vorbestimmten Zeit an alle entfernten Benutzerschnittstellen.
5. Verfahren nach Anspruch 4, bei dem das "Anwendung-verfügbar"-Signal als ein Teil eines elektronischen Programmführers ausgestrahlt wird.
6. Verfahren nach einem der vorhergehenden Ansprüche, bei dem jede Benutzerschnittstelle einen Anwendungszeitwert inkrementiert, der initiiert wird, wenn die Anwendung beginnt.
7. Verfahren nach einem der vorhergehenden Ansprüche, bei dem sich die interaktive Anwendung auf eine Fernsehsendung bezieht, die ausgestrahlt wird, während die interaktive Anwendung läuft.
8. Verfahren nach Anspruch 7, weiter umfassend das Übermitteln elektronischer Programmführerdaten an die Benutzerschnittstellen, wobei die elektronischen Programmführerdaten die geplante Startzeit der Fernsehsendung angeben.
9. Verfahren nach einem der vorhergehenden Ansprüchen, bei dem die Anwendungsdaten einen der Anwendung zugeordneten Regelsatz umfassen.
10. Verfahren nach einem der vorhergehenden Ansprüchen, bei dem die Anwendungsdaten ausführbaren Computercode umfassen.
11. Verfahren nach einem der vorhergehenden Ansprüchen, bei dem die interaktive Anwendung ein interaktives Spiel umfasst.
12. Verfahren zum Implementieren einer interaktiven Anwendung, wobei das Verfahren umfasst: Liefern von Information von einer zentralen Quelle an mehrere entfernte Benutzerschnittstellen, die sich auf eine interaktive Anwendung beziehen, durch ein Verfahren nach einem der vorhergehenden Ansprüche; und Veranlassen der ausgewählten Benutzerschnittstellen, die interaktive Anwendung nach Empfang des Echtzeit-Startsignals freizuschalten, wodurch die Benutzerschnittstellen Information von der zentralen Quelle empfangen und Information an die zentrale Quelle liefern.
13. Vorrichtung zum Liefern von Information von einer zentralen Quelle an mehrere entfernte Benutzerschnittstellen, die sich auf eine interaktive Anwendung beziehen, wobei die Vorrichtung Mittel umfasst zum:

i) Übermitteln von Anwendungsdaten, die der interaktiven Anwendung zugeordnet sind, an die Benutzerschnittstellen; und

ii) danach, Übermitteln eines Echtzeit-Startsignals an die Benutzerschnittstellen, um es der interaktiven Anwendung zu ermöglichen, an jeder Benutzerschnittstelle im Wesentlichen gleichzeitig zu beginnen.

14. Benutzerschnittstellenvorrichtung zur Verwendung mit einer Vorrichtung nach Anspruch 13, wobei die Benutzerschnittstellenvorrichtung einen Prozessor zum Implementieren einer interaktiven Anwendung umfasst und zum Ansprechen auf den Empfang eines Echtzeit-Startsignals zum Initiiieren mindestens des interaktiven Teils der Anwendung ausgelegt ist.

**Revendications**

1. Procédé de fourniture d'informations en provenance d'une source centrale à une pluralité d'interfaces utilisateur distantes en rapport avec une application interactive, le procédé comprenant :

i) la transmission de données d'application associées à l'application interactive aux interfaces utilisateur ; et,

ii) ensuite, transmission d'un signal de début en temps réel aux interfaces utilisateur pour permettre à l'application interactive de débuter essentiellement simultanément sur chaque interface utilisateur.

2. Procédé selon la revendication 1, dans lequel le signal de début en temps réel définit un instant dans le futur auquel l'application interactive débute.

3. Procédé selon la revendication 1 ou 2, dans lequel l'étape i) comprend la transmission répétée des données d'application à partir d'un instant prédéterminé avant que l'application interactive ne soit à débuter.

4. Procédé selon la revendication 3, comprenant, en outre, la diffusion d'un signal d'"application disponible" à l'instant prédéterminé vers toutes les interfaces utilisateur distantes.

5. Procédé selon la revendication 4, dans lequel le signal d'"application disponible" est diffusé comme partie d'un guide de programme électronique.

6. Procédé selon l'une quelconque des revendications précédentes, dans lequel chaque interface utilisateur incrémente une valeur temporelle d'application qui est initiée lorsque l'application débute.

7. Procédé selon l'une quelconque des revendications précédentes, dans lequel l'application interactive est en rapport avec un programme de télévision qui est diffusé tandis que l'application interactive est active.

8. Procédé selon la revendication 7, comprenant, en outre, la transmission de données de guide de programme électronique aux interfaces utilisateur, les données de guide de programme électronique indiquant l'instant de début planifié du programme de télévision.

9. Procédé selon l'une quelconque des revendications précédentes, dans lequel les données d'application comprennent un ensemble de règles associées à l'application.

10. Procédé selon l'une quelconque des revendications précédentes, dans lequel les données d'application comprennent un code informatique exécutable.

11. Procédé selon l'une quelconque des revendications précédentes, dans lequel l'application interactive comprend un jeu interactif.

12. Procédé d'implémentation d'une application interactive, le procédé comprenant la fourniture d'informations en provenance d'une source centrale à une pluralité d'interfaces utilisateur distantes en rapport avec une application interactive par un procédé selon l'une quelconque des revendications précédentes ; et ayant pour effet d'amener les interfaces utilisateur sélectionnées à activer l'application interactive après la réception du signal de début en temps réel, d'où il résulte que lesdites interfaces d'utilisateur reçoivent les informations en provenance de la source centrale et fournissent des informations à la source centrale.

13. Dispositif pour la fourniture d'informations en provenance d'une source centrale à une pluralité d'interfaces utilisateur distantes en rapport avec une application interactive, le dispositif comprenant des moyens pour :

i) transmettre des données d'application associées à l'application interactive aux interfaces utilisateur ; et,

ii) ensuite, transmettre un signal de début en temps réel aux interfaces utilisateur pour permettre que l'application interactive débute essentiellement simultanément sur chaque interface utilisateur.

14. Dispositif d'interface utilisateur pour utilisation avec un dispositif selon la revendication 13, le dispositif d'interface utilisateur comprenant un processeur

pour l'implémentation d'une application interactive et étant conçu pour réagir à la réception d'un signal de début en temps réel afin d'initier au moins la partie interactive de l'application.

5

10

15

20

25

30

35

40

45

50

55

8

Fig. 1.

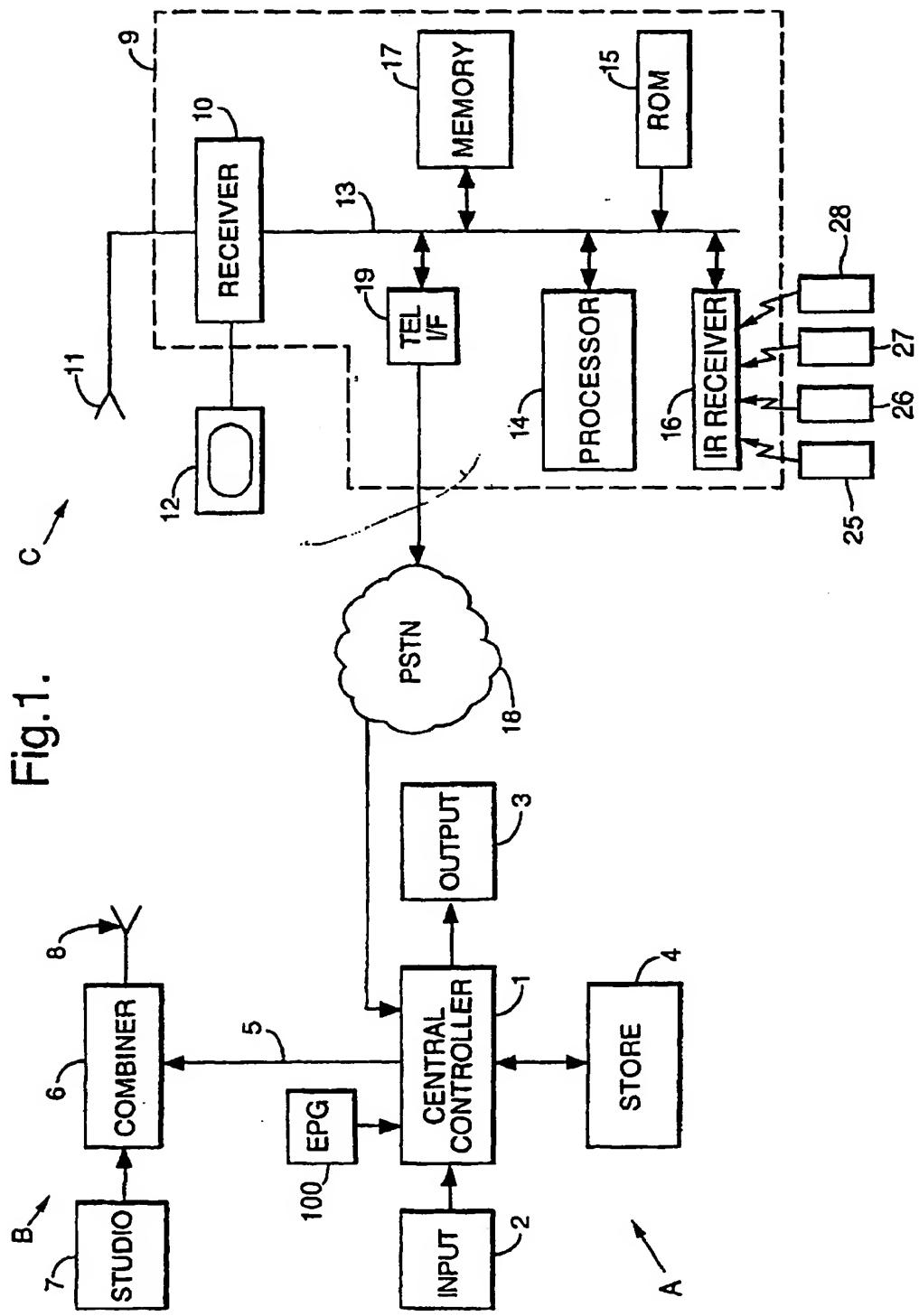


Fig.2.

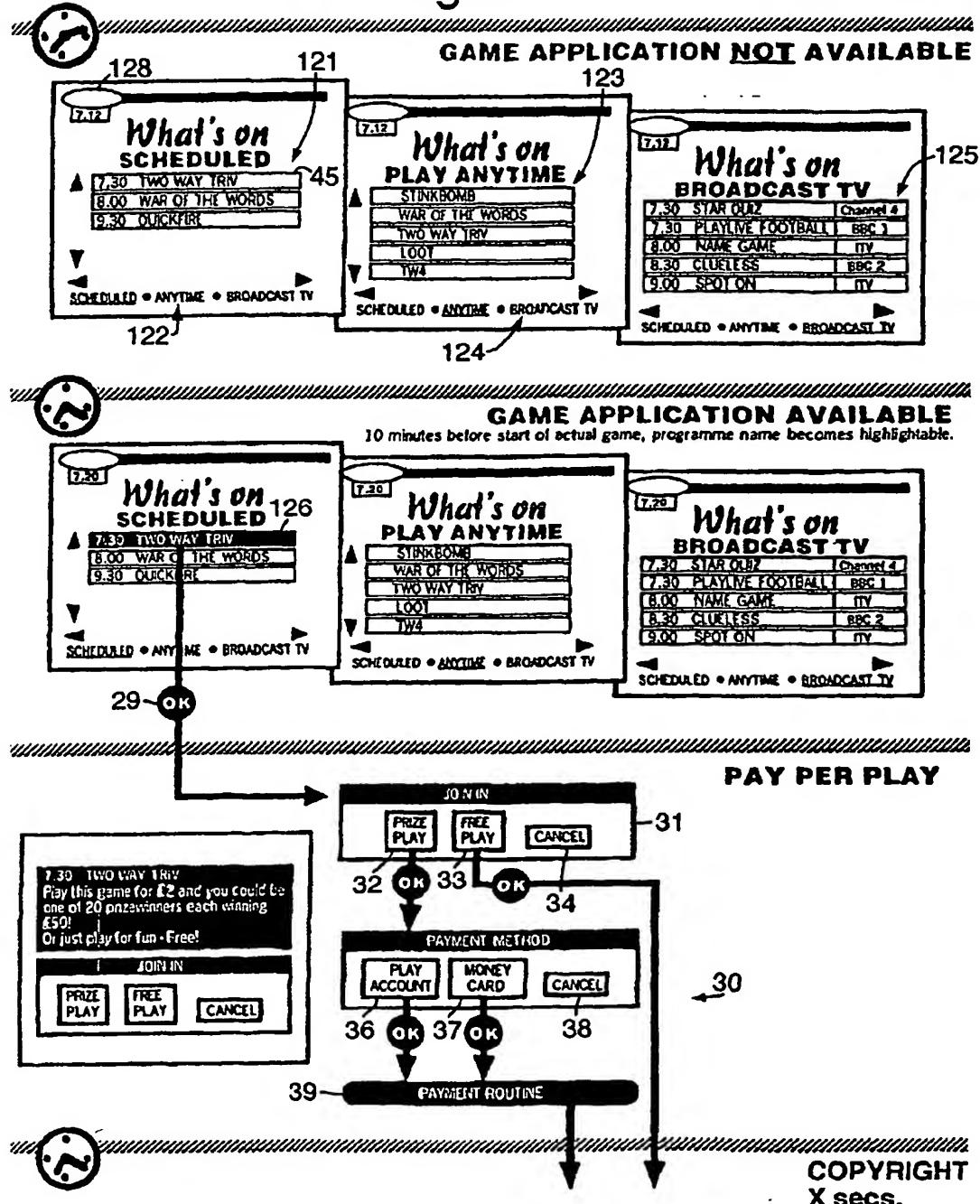


Fig.3.

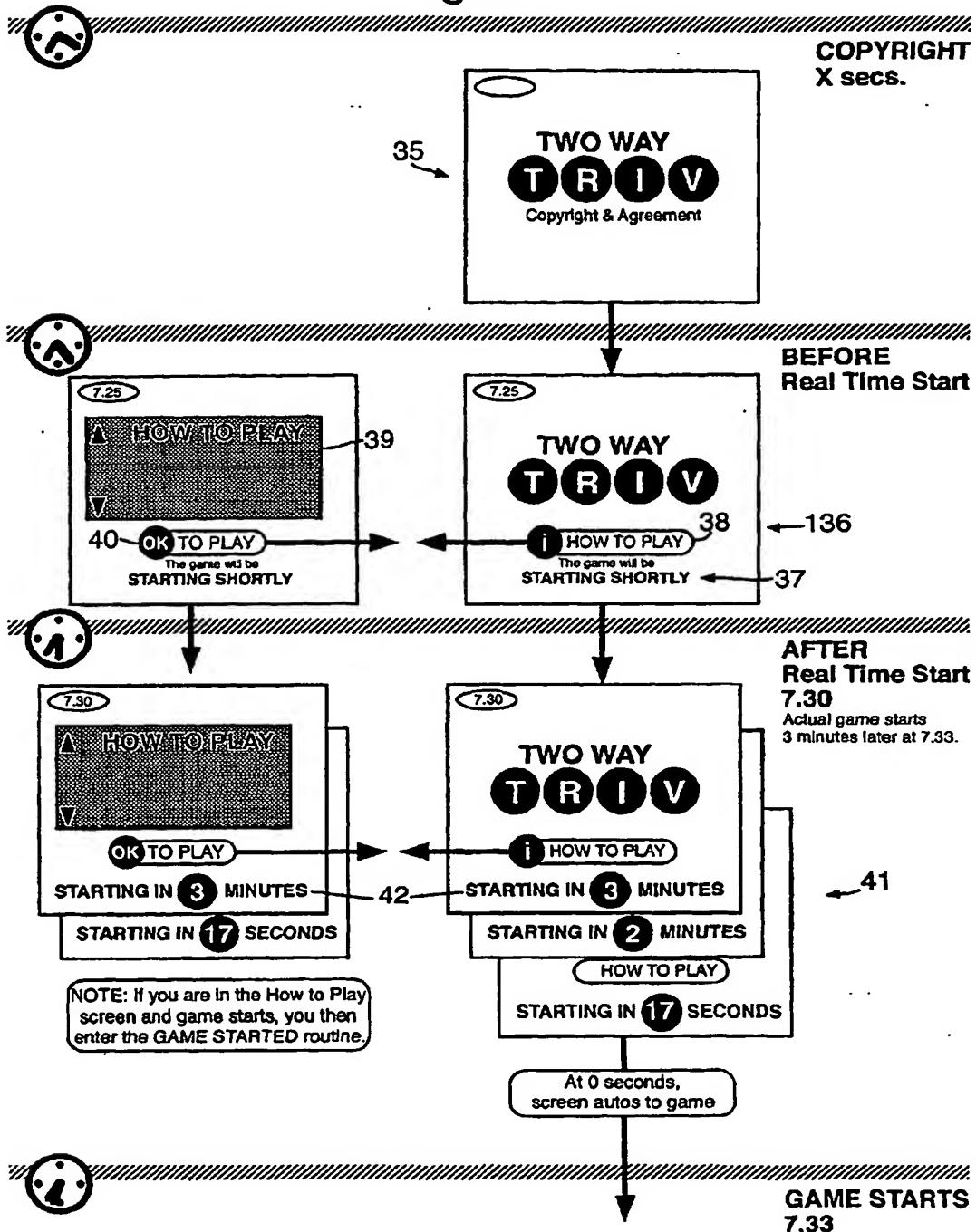


Fig.4.

